UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,162	11/13/2003	Frederick Wilkins	2003P86279US	8203
37462 LANDO & AN	7590 09/08/200 <b>ASTASI.</b> LLP	9	EXAMINER	
ONE MAIN ST	REET, SUITE 1100	PHASGE, ARUN S		
CAMBRIDGE, MA 02142			ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@ll-a.com gengelson@ll-a.com

		Application N	0.	Applicant(s)		
Office Action Summary		10/712,162		WILKINS ET AL.		
		Examiner		Art Unit		
		Arun S. Phasg	е	1795		
The MAILING DATE Period for Reply	of this communication a	ppears on the co	ver sheet with the c	orrespondence ad	ldress	
A SHORTENED STATUT WHICHEVER IS LONGEF - Extensions of time may be availab after SIX (6) MONTHS from the m - If NO period for reply is specified a - Failure to reply within the set or ex	R, FROM THE MAILING le under the provisions of 37 CFR of ailing date of this communication. bove, the maximum statutory periodended period for reply will, by statuter than three months after the mail	DATE OF THIS ( 1.136(a). In no event, he ad will apply and will exp ute, cause the application	COMMUNICATION DWEVER, may a reply be time ire SIX (6) MONTHS from In to become ABANDONE	<b>J.</b> lely filed  the mailing date of this c  (35 U.S.C. § 133).		
Status						
2a)⊠ This action is <b>FINAL</b> 3)□ Since this application	nunication(s) filed on <u>27</u> 2b) The result of the resu	nis action is non-f vance except for t	ormal matters, pro		e merits is	
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-5,7,8,2</u> 4a) Of the above cla 5)□ Claim(s) is/a 6)⊠ Claim(s) <u>1, 3-5, 7, 8</u> 7)□ Claim(s) is/a 8)□ Claim(s) are	im(s) is/are withdr re allowed. <u>, 21 and 22</u> is/are rejecte re objected to.	rawn from consid	eration.			
Application Papers						
	on is/are: a) ☐ acuest that any objection to the sheet(s) including the corre	ccepted or b) control of control or control	eld in abeyance. See the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	• •	
Priority under 35 U.S.C. § 11	9					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (P <sup>2</sup> 2) Notice of Draftsperson's Paten 3) Information Disclosure Statem Paper No(s)/Mail Date	t Drawing Review (PTO-948)	4) [ 5) [ 6) [	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ite		

### **DETAILED ACTION**

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

Claims 1, 3-5, 7-8 and new claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tessier in view of Deguchi.

The Tessier patent does not disclose the storage of the stream from the cathode chamber, rather it states that the water is discharged by 60 and 62 (col. 4, lines 19-20). It further shows the use of 62 as the RO device, showing some type of recycle of the solution (see figure 3).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Tessier by the teachings contained therein.

One having ordinary skill in the art would have been motivated to do this modification, because the reference teaches some type of recycle of the third water stream from the cathode.

## Response to Arguments

Applicant's arguments filed 5/27/09 have been fully considered but they are not persuasive.

Applicants argue that the reference would not produce the claimed water having the reduced LSI. The Tessier patent teaches the same steps of feeding water from the diluting chamber to the cathode chamber to form a third stream.

Similar processes can reasonably be expected to yield products which inherently have the same properties. In re Spada 15 USPQ2d 1655.

Applicants should provide a side by side comparison between the claimed invention and the Tessier process to show the differences between the claimed result.

Applicants further argue that hydrogen cannot form, because deionized water is required to form hydrogen. Claim 5 passes regular water through the cathode before the EDI device. How is the water in claim 5 produced having the lowered LSI water, when the water contains conductive materials therein, which accordingly to applicants argument above cannot produce the lowered LSI.

With respect to the claim 5, applicant argues that the Tessier patent steps are reversed in claim 5, i.e., that the water is fed through the cathode first before feeding

through the diluting compartment, whereas, the Tessier patent feeding through the diluting compartment before feeding through the cathode compartment.

It has been well settled that such reversal of parts or steps is within the purview of the ordinary artisan In re Gazda 104 USPQ 378.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

Art Unit: 1795

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Arun S. Phasge/

Primary Examiner, Art Unit 1795

**ASP**